COURSE DESCRIPTION

This course is an introduction to broad standards that serve as a foundation for Health Care Occupations and functions across health services. Units included are academics in health care communications systems, legal responsibilities, ethics, teamwork, and safety practices.

It is strongly recommended that administration and guidance follow the scope and sequence and course recommendations as listed.

Recommended Credits: 1

Recommended Grade Level(s): 9-11th

Number of Competencies in Course: 39

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INTEGRATION/LINKAGES

Math, Chemistry, Biology, Psychology, Sociology, English, SCANS, National Health Care Skill Standards, National Math Standards, National HOSA Guidelines, National Science Standards, and Industry Standards

STANDARDS

- **1.0** The student will know and apply the academic subject matter required for entrance within the Health Science Career Cluster.
- **2.0** The student will differentiate between the various services, careers, and departments in a health care setting.
- 3.0 The student will evaluate the responsibilities necessary to become a member of a professional organization and the HOSA team.
- 4.0 The student will explain the various methods of giving and obtaining information, demonstrate use of all forms of communication, and evaluate roles and responsibilities.
- 5.0 The student will evaluate legal responsibilities, limitations, and implications of actions within the health care delivery system.
- The student will analyze the existing and potential hazards to clients, co-workers, and self and will prevent injury or illness through safe work and infection control practices.
- 7.0 The student will analyze and synthesize information related to the public health services and maintenance of health communities.
- **8.0** The student will perform skills necessary for physical assessment of health status and emergency care.

STANDARD 1.0

The student will know and apply the academic subject matter required for entrance within the Health Science Career Cluster.

LEARNING EXPECTATIONS

The student will:

- **1.1** Analyze principles of basic anatomy and body organization in assessing health.
- **1.2** Perform mathematical operations to convert body temperature using Celsius/Fahrenheit methods and convert weight to metric measurement.
- 1.3 Use medical terminology, including root words, prefixes, suffixes, and abbreviations.
- **1.4** Evaluate the history of health care in respect to time, culture, religion, and regions.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

- **1.1** Distinguish between function and basic components of body systems and relative terms related to body organization.
- **1.2** Calculate math conversions between English and metric from a given scenario using National HOSA Medical Math guidelines.
- 1.3 Demonstrate symbols, abbreviations, and medical terminology usage by implementing National HOSA Medical and Dental Terminology and Medical and Dental Spelling guidelines.
- **1.4** Demonstrate guidelines using medical and dental terminology and medical and dental spelling.
- **1.5** Develop a research paper illustrating the history of health care. Orally report on the history of health care using National HOSA Research/Persuasive Speaking guidelines.

- Compare structure and function of body systems.
- Obtain and convert height and weight between English and metric.
- Use flash cards and practice usage of symbols, abbreviations, and medical terminology in note taking.
- Using techniques of behavior modification, develop a plan for improving health status based on results of health appraisal.
- Differentiate individual, family, community, and environmental health.

STANDARD 2.0

The student will differentiate between the various services, careers and departments in a health care setting.

LEARNING EXPECTATIONS

The student will:

- **2.1** Analyze the range of services offered to clients through various health care facilities.
- **2.2** Differentiate between various degrees, certifications, and registration for health care professions.
- 2.3 Investigate careers in the Therapeutic Services career cluster giving a definition for careers.
- 2.4 Differentiate between the careers in the Diagnostic Services career cluster and explain job duties of careers.
- 2.5 Compare and contrast careers in the Health Informatics career cluster and explain job duties of careers.
- 2.6 Identify careers in the Support Services career cluster and give definitions of careers.
- 2.7 Investigate the careers found in the Biotechnology Research and Development Career Cluster and share job duties.
- 2.8 Analyze the strategies for procuring a job in a health care profession, prepare a resume, complete a mock job application, and interview for that job.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

- **2.1** Diagram a flow chart of services offered to clients/patients.
- 2.2 Research fees for services paid for and not paid for under managed care by implementing National HOSA Medical Math guidelines.
- **2.3** Connect careers with required certification, registration, or degree level.
- 2.4 Research a career from one of the cluster areas: Therapeutics, Diagnostic, Health Informatics, Support Services, or Biotechnology; use National HOSA guidelines Career Health Display to prepare a display.

- 2.5 Use the Internet to obtain information on a career and write a research paper to explain career.
- 2.6 Demonstrate interview, application, and resume writing skills necessary for job attainment by implementing National HOSA Job Seeking Skills guidelines.
- **2.7** Research job openings in the area, then, create a job resume and cover letter.
- **2.8** Role-play job interviewing with a partner with identification of strengths and weaknesses.
- **2.9** Utilize National HOSA Job Seeking Skills to prepare for a job in the chosen career area.

- Using a written scenario, identify areas of duplication between occupational and physical therapies, assigning modalities to appropriate services.
- Debate fee for services versus managed care by implementing National HOSA Biomedical Debate guidelines.
- Invite health care professionals from all career cluster areas to the classroom to explain their profession to students.
- Take field trips to health care facilities.
- Sponsor a career fair with all cluster areas represented.
- Have students interview a health care professional from one of the chosen career cluster areas and present their findings to class.

STANDARD 3.0

The student will evaluate the responsibilities necessary to become a member of a professional organization and the HOSA team.

LEARNING EXPECTATIONS

The student will:

- 3.1 Interpret information obtained concerning professional organizations within health care.
- 3.2 Relate the background of HOSA, including purposes and principles of the organization creed, motto, emblem, and dress.
- 3.3 Diagram the organizational levels of HOSA.
- 3.4 Incorporate HOSA leadership skills into skills required for health care professionals.
- **3.5** Apply teambuilding concepts to the classroom, to a work setting, and to the school.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

The student will:

- **3.1** Research and present information from a professional organization.
- **3.2** Formulate a parallel between membership in HOSA as a high school student and membership in a professional organization.
- 3.3 Utilize National HOSA Extemporaneous Writing Guidelines and explain how HOSA will help you in your chosen profession.
- 3.4 Design a visual explaining some of the National HOSA Competitive Event Guidelines.
- **3.5** Evaluate interpretation of each team member's responsibilities in cooperative learning activities.
- **3.6** Using HOSA competitive event guidelines, evaluate participation in individual and team activities.

SAMPLE PERORMANCE TASK

Participate in HOSA National Recognition Program.

- Plan a HOSA week, and develop teams to market and teach HOSA background information to the community and new members.
- Choose a competitive event and teach the class about that competition.
- Participate in cooperative learning activities by including competitions in Parliamentary Procedure, HOSA Bowl, Biomedical Debate, Community Awareness and Career Health Display.

STANDARD 4.0

The student will explain the various methods of giving and obtaining information, demonstrate use of all forms of communication, and evaluate roles and responsibilities.

LEARNING EXPECTATIONS

The student will:

- 4.1 Assess the importance of effective communication using rules of communication and appropriate listening skills, including sending and receiving information.
- **4.2** Adapt communication to individual needs (age and development specific) and multicultural and multilingual needs.
- **4.3** Differentiate between culture, ethnicity, and race; then, identify ways health care professionals can communicate in a respectful, unbiased manner.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

The student will:

- **4.1** Evaluate a written and oral report of role-play situations by implementing National HOSA Prepared Speaking guidelines.
- **4.2** Critique speaking skills by implementing National HOSA Extemporaneous Speaking guidelines.
- **4.3** Explain in written or oral presentation the definitions of culture, ethnicity, and race.
- **4.4** Create a health care plan to provide care for multicultural clients.

SAMPLE PERORMANCE TASK

 Role-play procedural explanation between health care workers and client/patients, using communication rules and listening skills.

- Using role-play, explain given procedure to pre-schooler, elderly, Spanish speaking and hearing impaired client/patient.
- Adapt a procedure to assist client/patient with cultural needs and language requirement.
 Write an oral/written report using National HOSA Creative Problem Solving guidelines.
- Use National HOSA Chapter Newsletter guidelines and create a healthy newsletter for people of another language or culture.

STANDARD 5.0

The student will evaluate legal responsibilities, limitations, and implications of actions within the health care delivery system.

LEARNING EXPECTATIONS

The student will:

- **5.1** Define the qualities of a successful health care professional.
- **5.2** Examine legal aspects of client/patient care, including HIPPA guidelines, confidentiality, consent, and negligence.
- **5.3** Define standard of care and explain the purpose of professional code of ethics.
- **5.4** Analyze legal requirements in documentation.
- Analyze the Patients' Bill of Rights and compare the needs of client/patient who have cultural, social, and ethical differences in regard to the Patients' Bill of Rights.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

- **5.1** Compare the qualities of a health care professional to maintaining legal and ethical standards.
- **5.2** Analyze consent forms, facility policies, and procedure and patient confidentially.
- **5.3** Compare and contrast code of practice for varied health care professionals
- **5.4** Evaluate and report on a medical television program, documenting various legal issues.
- **5.5** Evaluate, research, and report on patient confidentiality by implementing National HOSA Research Persuasive Speaking guidelines.
- **5.6** Interview a health care lawyer. Report on legal requirements for documentation.
- 5.7 Research facility's safety policy and procedures for clients/patients who use English as a second language

- Role-play legal and ethical issues in health care to determine best outcome.
- Obtain a malpractice case study from the Internet and debate the case in a mock trial.
- Debate malpractice and liability issues following National HOSA Biomedical Debate guidelines.
- Apply Patients' Bill of Rights to the health care setting and identify way in which client confidentiality may be broken.
- From a written scenario/medical record, identify errors in documentation.
- Research social, cultural, and ethical backgrounds to determine varying aspects of needs.

STANDARD 6.0

The student will analyze the existing and potential hazards to clients, co-workers, and self and will prevent injury or illness through safe work and infection control practices.

LEARNING EXPECTATIONS

The student will:

- **6.1** Use Standard Precautions and OSHA Standards to control the spread of infection, including aseptic techniques such as hand washing, personal protective equipment, isolation, and personal hygiene.
- Apply principles of body mechanics, including proper lifting techniques, positioning, moving, and transferring.
- **6.3** Employ emergency procedures and protocols regarding fire and electrical hazards and hazardous materials.
- 6.4 Assess safety practices that are related to safety of clients in a health care facility.
- 6.5 Identify the factors that affect microbial growth and methods for destroying them.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

- **6.1** Demonstrate safety practices using OSHA Standards.
- **6.2** Correctly don and remove personal protective equipment.
- 6.3 Evaluate student demonstration of body mechanic principles by implementing National HOSA guidelines for Nursing Assistant and Physical Therapy.
- **6.4** Demonstrate, correctly, proper hand washing.
- Role-play hazardous situations in a health care facility that involves fire, flooding, and other emergencies.
- Assess safety practices in a health care setting for incorrect procedures. This can be roleplayed in the classroom using scenarios.
- **6.7** Create something visual to explain the chain of infection.
- **6.8** Analyze asepsis techniques and explain uses of both.

- Using knowledge of Standard Precautions and OSHA Standards, practice skills necessary to prevent the spread of infection.
- Utilize National HOSA Nursing Assisting guidelines and perform hand washing procedure.
- Analyze role-playing situations and errors in body mechanic usage.
- Role-play hazardous situations in a health care facility that involves fire, flooding, and other emergencies.
- Apply OSHA Standards to given scenario of environmental hazards. Plan and implement a mock emergency disaster involving the community.

STANDARD 7.0

The student will analyze and synthesize information related to the public health services and maintenance of health communities.

LEARNING EXPECTATIONS

- **7.1** Compare and contrast the agencies and available services or careers within the health and human services department.
- 7.2 Investigate the history of the public health services and relate how the services have improved lives in their communities.
- **7.3** Analyze statistics from the Centers for Disease Control and Prevention and other sources for identification of prevalent health issues in your community.
- 7.4 Create an educational plan for community health issues that are preventable.
- **7.5** Create an emergency plan for the following potential threats: natural disaster; severe weather; bioterrorism; chemical, radiation, and biological agents.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

- **7.1** Develop an organizational chart of all agencies and services for the Department of Health and Human Services with related careers for each area.
- **7.2** Create a time line of history of public health services.
- **7.3** Critique public health services for effectiveness and share findings in a written or oral presentation.
- **7.4** Evaluate community health statistics and develop a graph explaining results.
- **7.5** Utilize National HOSA Health Education guidelines and develop an educational plan for an issue specific to your community.
- **7.6** Research potential threats in your community and design a community plan for the areas.

- Research federal, state, and local agencies, including departments of health and human services.
- Research on the Internet the agencies and services offered by the U.S Department of Health and Human Services, then, present the information in an oral presentation.

- Invite personnel from the public health department to speak to the class.
- Invite personnel from the U.S. Public Health Services Commissioned Corp into your classroom.
- Investigate CERT training in your community and have a guest speaker into the classroom.
- Utilizing National HOSA Public Service Announcement guidelines, develop a public service announcement (PSA) to present to school and community on a health issue in the community and services available to prevent or improve the condition.
- Utilize National HOSA Health Education guidelines to identify and plan an educational session for an area in your community that you deem a public health or wellness issue.
- Utilize National HOSA Public Health Emergency Preparedness guidelines and design an emergency plan for a natural disaster or a disaster caused by people.
- Investigate the Medical Reserve Corps and develop a plan where a high school student can be involved.

STANDARD 8.0

The student will perform skills necessary for physical assessment of health status and emergency care.

LEARNING EXPECTATIONS

- **8.1** Demonstrate principles of first aid application in emergency conditions, such as bleeding, shock, poisoning, burns, heat, cold exposures, musculoskeletal injuries, and sudden illness.
- **8.2** Demonstrate cardiopulmonary resuscitation emergency procedures.
- **8.3** Measure vital signs.
- **8.4** Perform health assessment, including measures such as height, weight, nutritional analysis, and psychosocial skills.

PERFORMANCE INDICATORS: EVIDENCE STANDARD IS MET

The student will:

- **8.1** Evaluate demonstration on the principle of first aid using National HOSA First Aid and/or CPR guidelines.
- **8.2** Using National HOSA CPR guidelines, evaluate a cardiopulmonary resuscitation demonstration.
- **8.3** Using National HOSA Nursing Assisting guidelines, measure and record vital signs. Evaluate the demonstration.
- **8.4** Perform a nutritional assessment using patient's height, weight, age, activity, and stress factors.
- **8.5** Evaluate adequacy of diet comparing diet history/diary to assessed caloric/nutrient needs.

- Using food guide pyramid, analyze a food diary and devise appropriate changes to meet needs.
- Perform a nutrition assessment calculating estimated energy needs. Using ADA exchange lists, design a meal plan for 3 meals and 2 snacks.